

ACCESSION NUMBER: AAW34569 peptide DGENE

TITLE: Recovery of fibrinogen using polysaccharide solid support coupled to fibrinogen-binding peptide - requires only mild elution buffers

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PATENT INFO: WO 9726280 A1 19970724 24

APPLICATION INFO: WO 1997-AU13 19970114

PRIORITY INFO: AU 1996-7564 19960116

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1997-385298 [35]

DESCRIPTION: Synthetic fibrinogen binding peptide 2.

AB Peptides AAW34568-71 are synthetic fibrinogen binding peptides.

A tripeptide, Gly-Pro-Arg is also claimed.

This tripeptide sequence corresponds to the first 3 amino acids of the alpha-chain exposed by the thrombin catalysed release of the fibrinopeptide A in all vertebrate species. In peptide AAW34568, the addition of a proline residue at position 4 increases the affinity of the peptide for fibrinogen almost tenfold.

These synthetic fibrinogen binding peptides are immobilised on a novel polysaccharide support (e.g. Sephadex), to which they are coupled through a spacer or linker moiety. This linker moiety comprises a chain of greater than 7 atoms. The solid support is useful for the recovery and isolation of fibrinogen from material such as plasma, plasma fractions and fibrinogen-containing cell culture media arising from the production of fibrinogen by recombinant DNA techniques. The process is superior to other known affinity isolation procedures in that only mild elution buffers are required to recover the bound fibrinogen.

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E RICHTER?/AU
L1 5396 S E2
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L3 28 S E1 OR E2
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L4 191 S E2
L5 22046 S GLY (A) PRO (A) ARG (A) PRO
L6 3 S L5 AND (L1 OR L2 OR L3 OR L4)
L7 3218 S GLY (A) PRO (A) ARG (A) PRO (A) LYS
L8 22046 S GLY (A) PRO (A) ARG
L9 781 S (L5 OR L7 OR L8) (S) (ADSORB? OR AFFINITY OR COUPLED OR
L10 162 S L9 (S) (FIBRIN?)
L11 95 DUP REM L10 (67 DUPLICATES REMOVED)